

556-34

SECTION V.—SEISMOLOGY.

SEISMOLOGICAL ABBREVIATIONS USED IN THE INSTRUMENTAL REPORTS.

CHARACTER OF THE EARTHQUAKE.

I = noticeable.

II = conspicuous.

III = strong.

d = (*terre motus domesticus*) = local earthquake (sensible or felt).v = (*terre motus vicinus*) = near-by earthquake (within 1,000 km.).r = (*terre motus remotus*) = distant earthquake (1,000 to 5,000 km. distant).u = (*terre motus ultimus*) = very distant earthquake (beyond 5,000 km.). Δ = distance to epicenter.

PHASES.

P = (*undæ primæ*) = first preliminary tremors.PR_n = P waves reflected *n* times at the earth's surface.S = (*undæ secundæ*) = second preliminary tremors.SR_n = S waves reflected *n* times at the earth's surface.

PS = transformed waves; longitudinal (P) to transversal (S) or vice versa.

L = (*undæ longæ*) = long waves in the principal portion.M = (*undæ maximæ*) = greatest motion in the principal portion.

C = (coda) = trailers.

O = time at epicenter.

L_{rep1} = Long waves reaching the station from the anti-epicenter (40,000 km. - Δ).L_{rep2} = long waves again reaching the station from the antiepicenter (40,000 km. + Δ).

F = (finis) = end of perceptible trace.

NATURE OF THE MOTION.

i = (impetus) = abrupt beginning.

e = (emersio) = gradual appearance.

T = period = twice the time of oscillation.

A = amplitude of the earth's movement, reckoned from the zero line.

E, N, or Z attached to a symbol signifies the E-W, the N-S, or the vertical component, respectively, thus:

A_E is the E-W component of A.A_N is the N-S component of A.A_Z is the vertical component of A. } Measured in microns(μ), $\frac{1}{1000}$ mm.

INSTRUMENTAL CONSTANTS.

T = period of instrument.

V = magnification of instrument.

ε = damping ratio.

SEISMOLOGICAL REPORTS FOR JULY, 1917.

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[Dated: Weather Bureau, Washington, D. C., Sept. 4, 1917.]

TABLE 1.—*Noninstrumental earthquake reports, July, 1917.*

Day.	Approximate time, Greenwich Civil.	Station.	Approximate latitude.	Approximate longitude.	Intensity Rossi-Forel.	Number of shocks.	Duration.	Sounds.	Remarks.	Observer.
		CALIFORNIA.	° °	° °				M. s.		
7	20 57 (Morning)	Owenyo.....	36 40	113 01	6-7	1			Broke aqueduct.....	Wm. Mulholland.
7	20 57	San Luis Obispo.....	35 18	120 39	3	2	7		Rattled windows.....	U. S. Weather Bureau.
8	3 20	Santa Maria.....	34 58	120 27	2-3	1	10			Henry Neil, Jr.
9	5 15	Bishop.....	37 24	118 26	3	1		Rumbling...		William Barth.
9	22 22	San Luis Obispo.....	35 18	120 39	4	1	2	Loud.....		U. S. Weather Bureau.
15	19 05	Mt. Wilson.....	34 13	118 16	4	2	2	Rumbling....	House creaked.....	Wendell P. Hoge.
16	6 50	Calexico.....	32 41	115 30	2	1	½	Rumbling....	Sounds before shock.....	H. M. Rouse.
21	16 50	Ferndale.....	40 35	124 16	3	3		None.....		M. Eriksen.
26	8 31	San Luis Obispo.....	35 18	120 39	2	1	2	None.....		U. S. Weather Bureau.
		Santa Maria.....	34 58	120 27	4-5	3	15		Moved furniture.....	R. E. Collom.
		PORTO RICO.								
13	6 20	Mayaguez.....	18 13	67 08	5	3	28	Faint.....		C. Aleman, jr.
27	2 01	Mayaguez.....	18 13	67 08	6	20	Faint.....		C. Aleman, jr.	
		San Juan.....	18 29	66 07	6	6		Clock stopped.....	U. S. Weather Bureau.	